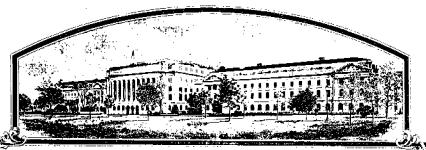
No.



7300054

AHHE UNITHED SHAMES OF AMIERROA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Ring Around Products, Inc.

Cultereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, Therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of Seventeen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different lety therefrom, to the extent provided by the Plant Variety Protection Act at. 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'Mitchell'

In Testimony Minercot, Thuse hereunto set my hund and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 30th day of October in the year of our Lord one thousand nine hundred and seventy-four

Acting Commissioner Plant Variety Protection Grain Division

Secretary of Agriculture

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

NSTRUCTIONS: See Reverse. . VARIETY NAME OR TEMPORARY	2. KIND NAME		FOR OFFIC	IAL USE ONLY
DESIGNATION			PV NUMBER	
Mitchell	Sovbean		<i>73</i>	3054
GENUS AND SPECIES NAME	4. FAMILY NAME (Bot		FILING DATE	TIME A.M.
~1	_		1/30/73	3:30 (P.M.)
Glycine Max	Legumin		FEE RECEIVED	BALANCE DUE
	5. DATE OF DETERM	INATION	\$ 250.00	- \$
			\$ 250.00	- \$
5 NAME OF ADDITIONS	7 ADDRESS (0)	ad No. of P. P. P.	Sity State, and ZIP	8. TELEPHONE AREA
6. NAME OF APPLICANT(S)	7. ADDRESS (Street ar		City, State, and ZIP	
ROHM AND HAAS SEEDS, INC	MONTEOMERY	ALABAMA	36101	. [
AGRIPRO, ING.	1 03 s	outh 16th S	treet -	(515) 232 069
KING THE TROOPS	4. Ames,	-IA 50010		
,		- 4 g ,		
9. IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnership,		10. STATE OF INCO	RPORATION	11. DATE OF INCOR- PORATION
		_	DELAWARE	100-00
Corporation				and sensing all same
12. Name and mailing address of applic	cant representative(s	,, ir any, to serve	in this application	and receive an papers:
_ 	Brian J. Mora	ghan De- H	MYNE FILINGS	
103.	Gouth 16th St	3		
ATTES	- - 			Sporter Hans D.
DR. JAMES E STRO	91KF . 707 1/2	m) com	Bulling Th	SINDE MOUSE, PA
		KNICHN YOAD,	OUTHURS I'M	1447/
13. CHECK BOX BELOW FOR EACH ATTACK	HMENT SUBMITTED:			
🔀 13A. Exhibit A, Origin and Bre-	eding History of the	Variety (See Secti	on)2 of the Plant V	anety Protection Act.)
TER ton in title n n and 1 n	principa of the Waller	v		
X 138. Exhibit B, Botanical Dese	cripcion of the variet	J		
[文] 13¢, Exhibit C, Objective Desc	ription of the Variety	y		
	<u> </u>	•		
X 130. Exhibit D, Data Indicative	e of Novelty			
	-			
X 13E. Exhibit E, Statement of th	e Basis of Applicant	's Ownership		
14A. Does the applicant(s) specify tha	t seed of this variety	be sold by variet	y name only as a cla	iss of certified seed?
(See Section 83(a), (If "Yes," an	swer 14B and 14C be	elow.)	YES ANO	
14B. Does the applicant(s) specify tha		14C. If "Yes," to	14B, how many gen	nerations of production
limited as to number of generatio	ons?	beyond breed	_	_ —
·	YES XNO	FOUNDATI	ON REGISTERE	D CERTIFIED
The applicant declares that a viable				
ance of a certificate and will be repl				
The undersigned applicant(s) of thi	s sexually-reproduce	d novel plant varie	ety believes that the	variety is distinct,
uniform, and stable as required in S				
Plant Variety Protection Act,				
Applicant is informed that false rep	resentation herein ca	ın jeopardize prote	ction and result in p	enalties.
·		, ,		
March 20 197	14.	B.dr	Motaghan SIGNATURE OF APPLIC	
March 20, 197	-/-		SIGNATURE OF APPLIC	ANT)
<u> </u>			J.	۲ ٬
				<u> </u>
(DATE)			SIGNATURE OF APPLIC	ANT)



seybeans &

Stine Seed Farm, Inc.

-R#3 Box 98 Adet, Iowa 50003

Ph. 515/677-2605

AGRIPRO, INC. RYS
RING AROUND PRODUCTS, INC.

MITCHELL

Exhibit "A"

- 1. Amsoy X Wayne.
- 2. F2 derived lines yield tested.
- 3. F_{μ} derived lines selected from high yielding F_2 lines in winter nursery.
- μ_{\bullet} $F_{l_{\downarrow}}$ derived lines yield tested the following summer.
- 5. Mitchell increased and yield tested extensively in subsequent years.
- 6. The line is adequately uniform for maturity, height and other characters associated with intergenotypic competition to assure adequate stability in subsequent generations of multiplication.



soybeans & * seed oats * Stine Seed Farm, Inc.

-R#\$ Box 98 Adel, lowa 50003

Ph: 515/677-2605

ACRITAD, INC. RYS RING AROUND PRODUCTS, INC.

MITCHELL

Exhibit "B"

Emergence is better than Cutler 71, Clark 63 or Bonus. Growth habit is bushy, similar to Cutler 71, Clark 63 and Bonus. Height is shorter than Bonus but taller than Cutler 71 or Clark 63. Hilum color is brown, Cutler 71 and Clark 63 is black, Bonus is imperfect black.

Data indicates yield of Mitchell is significantly higher than Cutler 71, Clark 63 and Bonus.

MM. LENGTH OF SEEDLING

0 BACTERIAL PUSTULE

FROGEYE

BUD

BLIGHT

21. DISEASE: (Enter 0 : Not Tested; 1 = Susceptible; 2 = Resistant)

WILDFIRE

O SOYBEAN CYST

O STEM

EXHIBIT C

HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (GLYCINE MAX) INSTRUCTIONS: See Reverse. FOR OFFICIAL USE ONLY NAME OF APPLICANT(S) ACRIPRO, INC. PVPO NUMBER ADDRESS (Street and No., or R.F.D. No.: City. State, and ZIP Cade) 73054 VARIETY NAME OR TEMPORARY DESIGNATION 103 &, SIXTEEATH ST. Route 3 Box 98 AMES, TOWN 500010 MITCHELL Adel, Towa MONTGOMERY, ALA Place the appropriate number that describes the varietal character of this variety in the boxes below. 1. SEED SHAPE 2 = SPHERICAL FLATTENED 4 = OTHER (Specify) 3 = ELONGATE2] = SPHERICAL ISHADE. 2. SEED COAT COLOR: 1 = LIGHT 2 = MEDIUM 4 = BLACK 3 = BROWN 1 = YELLOW 5 = OTHER (Specify) 4. SEED SIZE 3. SEED COAT LUSTER: GRAMS PER-100 SEEDS 2 = SHINY 2 l = pull. SHADE 5. HILUM COLOR: MERRECT 1 = BUFF 2 = YELLOW 3 # BROWN 1 1 = LIGHT 2 = MEDIUM 3 = DARK 6 = BLACK 7. LEAFLET SIZE (See Reverse): 6. COTYLEDON COLOR: 2 = MEDIUM 2 1 = SMALL 1 = YELLOW 2 = GREEN 8. LEAFLET SHAPE: 5 = OTHER (Specify) 2 = OBLONG 3 = LANCEOLATE l = OVATE 1 10. FLOWER COLOR: 9. LEAF COLOR (See reverse): 2 = PURPLE 1 = WHITE S = DARK GREEN 2 = MEDIUM GREEN 1 = LIGHT GREEN 3 = OTHER (Specify) 2 12. POD SET: 11. POD COLOR: 2/5 4/2/85

1 = TAN 2 = BROWN 2 = CONCENTRATED l = scattered 3 = BLACK ! SHADE: 13. PLANT PUBESCENCE COLOR: 2 1 = LIGHT 2 = MEDIUM 3 = DARK 3 = OTHER (Specify) 2 1 = GRAY 2 = BROWN 15. PLANT HABIT: 14. PLANT TYPES (See Reverse):] = DETERMINATE 2 = INDETERMINATE 1 = SLENDER 2 = BUSHY 2 2 3 = OTHER (Specify) 17. SEED PROTEIN: 16. HYPOCOTYL COLOR: 1 = GREEN 2 = PURPLE 2 NUMBER OF DAYS TO FLOWERING 19. MATURITY GROUP: 4 = 11 5 = 10 $2 = \mathbf{0}$ (Place a zero in first box (e.g. 0 9) when] ≂ 00 days are 9 or less.) 10 = VIII 6 8 = VI 6 = IV 7 = v20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2)) when size is 9 mm. or less.)

MM. LENGTH OF COTYLEDON

O PURPLE STAIN

O BROWN

OTHER (Specify)

O DOWNY

MILDEW

PHTHORA

RHIZOCTONIA [

POD AND STEM BLIGHT

TARGET

0

لما

0

KNOT

SPOT

BROWN

4

ORM GR-470-2 (REVERSI 22. INDICATE WHICH VA	RIETY MOST CL				CHARAC	STER		NAME OF VARIE	
CHARACTER	N A	ME OF VARI	<u> </u>		Petiole o		Cut	ler	
Plant shape	Cutle	r		+-	Seed s		Cut	ler	
Leaf shape	Cutle	r			Seed sl			10r	
Leaf color	Cutle				edling pig			ler	
	Cutle	<u>r</u>			tearing ing				
Leaf surface 23. GIVE DATA FOR SU	BMITTED AND S	IMILAR STA	NDARD VAR	T		CONT	ENT	AVERAGE NO.	ropin
VARIETY	NO. OF DAYS	LODGING SCORE	PL.ANT HEIGHT	Width	SIZ.E.	Protein	Oil	OF PODS PER PLANT	<u></u>
			1.0		,,		07 70	49	ļ
Submitted	131	2.7	49	 				44	
Name of similar variety Cutler	130	2.5	47		<u> </u>		<u> </u>	<u> </u>	
GENERAL: The	Walter O	and Samu	ay be used el R. Aldr	ich, 1970	erence a	<u>Soybean</u>	Productic	,	Quarte
	Walter O	and Samu	ay be used el R. Aldr	l as a ref ich, 19 ⁻⁰	erence a	<u>Soybean</u>	Productic	,	Quarte: ement
1. S 2. M	cott, Walter O Jorman, A. G., AcKie, J. W.,	, and Samu 1963, <u>The</u>	ay be used tel R. Aldr Soybean:	as a ref ich, 1970 <u>Genetic</u> 1970, <u>1</u> 5	erence a), Modern s, Breed s Soybes	Soybean ling, Phys in Book	iology. N	utrition, Manage	- <u> </u>
1. S 2. M 3. M LEAF COLOR: variety. The foll Lig Med	cott, Walter O Norman, A. G., McKie, J. W., a Nickerson's o Nowing Soybea DLOR ht Green Lium Green	and Samu 1963, The and K. L. A r any recogn n varieties	ay be used lel R. Aldri Soybean: Anderson, gnized colo may be us VARIETY "Ada" "Wilkin" "Swift"	(as a refich, 1970) Genetic 1970, 1h or fan ma sed as a	Noderress Breed se Soybes	Soybean ling, Phys in Book d to deter identify t	iology. N	utrition, Manage	e descrí
1. S 2. M 3. M LEAF COLOR: variety. The foll Lig Med	cott, Walter O Norman, A. G., McKie, J. W., a Nickerson's o Nowing Soybea DLOR ht Green Lium Green	and Samu 1963, The and K. L. A r any recogn n varieties	ay be used lel R. Aldri Soybean: Anderson, gnized colo may be us VARIETY "Ada" "Wilkin" "Swift"	(as a refich, 1970) Genetic 1970, 1h or fan ma sed as a	Noderress Breed se Soybes	Soybean ling, Phys in Book d to deter identify t	iology. N	utrition, Manage	e'escri
1. S 2. M 3. M LEAF COLOR: variety. The foll Control Lig Med Dar LEAF SIZE: The Som Me	cott, Walter O Norman, A. G., McKie, J. W., a Nickerson's o Nowing Soybea OLOR ht Green Hum Green k Green he following v	and Samu 1963, The and K. L. A r any recogn n varieties	ay be used lel R. Aldri Soybean: Anderson, gnized colo may be us VARIETY "Ada" "Wilkin" "Swift"	Genetic Genetic 1970, 1h or fan ma sed as a	Noderress Breed se Soybes	Soybean ling, Phys in Book d to deter identify t	iology. N	utrition, Manage	e desct

INSTRUCTIONS

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

COLOR	VARIETY
Light Green	''Ada''
Medium Green	"Wilkin"
Dark Green	"Swift"

SIZE	VARIETY
	"Amsoy"
Small	"Bonus"
Medium	''Anoka''
Large	

PLANT TYPE: The following varieties may be used as a guide to identify the plant type-

TYPE	VARIETY
	'"Vansoy''
Slender	"Wirth"
Intermediate	"Adelphia"
Bushv	rice if

MITCHELL - EXHIBIT D

Novelty of Variety Mitchell

To the breeder's knowledge, the soybean variety "Mitchell" most closely resembles the variety Cutler. Mitchell is similar to Cutler in that Toll it also has tawny pubescence, brown pod color, and purple flower color; but it can be distinguished from Cutler by its brown hilum color. Mitchell is also three days later than Cutler and has better emergence than Cutler. Yield data from state experiment tests in 1973 illustrates Mitchell's yield superiority over Cutler.

enclosure: copy of 1973 Illinois State Soybean Tests 1973 Kansas State Soybean Tests 1973 Missouri State Soybean Tests EXHIBIT E

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Improved Variety Research, Inc.

Harry H. Stine Rt. 3, Adel, Iowa 50003

Dalo McCubbin Rt. 5, Marshalltown, Iowa 50158 Vice President EXHIBIT E RYS

Willard C. Latham Alexander, Iowa 50420 Secretary, Treasurer

Harold A. Folkerts Rt. 2, Allison, Iowa 50602 Director, Equipment Designer

To whom it may concern:

This is to inform you that as of June 1, 1973, the following assets of Improved Variety Research, Inc. have been purchased by Agripro, Inc., according to the terms of a contract:

- 1. All soybean seed and genetic and research materials, processes and formulae owned, used or developed by IVR wherever situated, whether in the form of seed stocks, growing plants, or genetic materials.
- 2. All records and memoranda used or maintained in connection with breeding, testing, increasing or any other phase of the soybean seed breeding program.
- 3. All contracts, agreements, leases and rights in connection with breeding, increasing, testing, marketing and producing soybean seed strains, varieties or brands, including variety protection rights.
- 4. All equipment, supplies, and materials including tractors, trucks, planters, cultivators, threshers, seed bags, office equipment.
- 5. The brand or trade name IVR and its good will.

Sincerely,

Willand C. Latham

Willard C. Latham, Secretary-Treasurer Improved Variety Research, Inc.

1973 Performance of Commercial Saybeans IN Illinois Circular 1088 73-54

Table 3. — Brownstown (Planted 30-inch rows)

Entry	Total acre yield	Moisture	Maturity	Lodging		2.	-year avera (19 72-1973	nge 3)	· 34	year aver 71-1972-1	age 973)
	(bu.)			score	(in.)	Acre yield	Lodging score	Height (in.)	Acre yield	Lodging score	
Kent. Mitchell	41.41	10.5 15.2	Oct. 9 Sept. 27	2.0 1.0	34 33	37.6	1.9	37			
Seedmaker 1-E Cutler '71	35.6	74.6 15.1	Sept. 19	1.0	34	34 .9	1.5	34	32.9	1.3	35
SRF 425.	33 7	16.0	Sept. 29	1.0	36	• • • .					•
SRF 350	33.6	12.1	Sept. 26	1.0	37						• •
SM JOBUL A RECED.	30 /	14.9	Sept. 23	1.0	31					• • • •	• • •
Peterson 125-	32.0	15.0	Sept. 25	1.0	35		* * *				
Williams.	31.9	15.0	Sept 27	1.0	36	33 8	1 1	37			
Clark '63	31 3	14.0	Sept. 27	1.0	32	35.4	1.0	35			
XB 594	31.3	15.6	Sept. 26 Sept. 24	1.0	34						• • • •
Anisov /1	30 0	15.6	Sept. 12	1.0 1.0	34		2 * *				
McCurdy X500	30.1	14.9	Sept. 25	1.0	33 34	31.6	1.2	3.3	31,1	1.2	34
2D-310-1.	30 0	14.0	Sept. 19	1.0	34			4.4			
Seedmaker 1-G	2 9 8	13.7	Sept. 19	1.0	31	27 0	111				
SRF 307P	20 R	15.0	Sept. 20	1.0	34	33.8	1.3	34	30.8	1.2	. 35
2D-326-1	29 5	14.7	Sept. 25	1.0	35						
PPK 951154	29.4	14.8	Ser. t. 18	1.0	34			* -			
Wayne.	29.2	14.9	Sept. 16	1.0	31	33 5	1.2			. 111	5.50
BRF 200	2X U	15.2	Sept. 15	1.0	34	,,,,	1.2	.5.5	31.1	1.1	34
SM 0105-2 Exp.	28.9	15.3	Sept. 17	1.0	29						
Wellsb	28.6	14.7	Sept. 10	1.0	29	•	• •				
213-318-1	29 S	15.1	Sept. 16	1.0	32						
McCurdy 109+	28 1	13.9	Scut. 21	1.0	33	• • •	• •	•	• • •	- • •	
Canano	27.9	14.4	Sept. 21	1.0	34		/ 1	• •		***	
Washington	27.6	15.0	Sept. 22	1.0	37	32.1	1.5	39		• • •	• • •
2D-312-1	26.8	14.3	Sept. 9	1.0	32		1	,1.7		• • •	• •
SM 26691A Exp.	26.0	16.1	Sept. 20	1.0	36				• • •		***
Bonus	17.7	15.3	Sept. 28	1.4	31				• • • •		• •
1973 average	30.5	14.6	•	1.05		• • •	• • •	• •			• •
1973 L.S.D.	4.6	1.8		1.05	33		100				
2-year average	- 0		• • •	1.0	3.0			1.			
2-year L.S.D.						34.1	1 3	3.5			
3-vear average						2 ()	0 2	2.0	,		
3-year L.S.D.		_						* 1	31.5	1.2	35
1973 C.V	- 304 110	·5	• • •		• •				N.S.	N.S.	N.S.
2-year C.V.	1.7				• •		+ + + - 1	• •	· · ·		
3-year C.V	0.7				***			* -	• • •		
<u> </u>											

a Indicates brand or blend.
b Infected in August by charcoal rot and downy mildew.

13-54

					ELD U/A			URITY 1/		DGING DRE 2/	Н	ETOHT IN.		DS PER
ENTRY	197	/1 1	.972	1973	1972-73	1971-73	1973	1971-73	1973	1971-73	1973	1971-73	1973	1971-73
NK 9210				43.7			-18		2.7		38		****	·
AMSOY 71				40.5		41.3	-17		2.5		38 45	37	2772 2566	
SRF 350				46.4			-3		2.7		46	31	3254	
WILLIAMS	32.	1 5/	6.7	45.8	51.2	44.9	-ž		1.3		44	39	2427	
CALLAND				43.2		43.5	-1	~6	1.8	1.5	45	39	2365	2621
RONUS				48.6		44.8	ō	_	1.6		51	43	2472	
FFR 951154				38.4			0	<u>-</u>	2.3		49		2726	
CLARK 63	19.	8 57	2.4	41.5	46.9	37.9	0	0	2.6		46	. 40	2857	
SRF 425				43.5			+1		3.0		48	<u>-</u> _	3118	
CUTLER 71				43.9		38.8	+2	_	1.2	1.2	48	41	2500	2793
MITCHELL				48.6			+5		2.1		49		2863	
SRF 450	20.	1 5:	5.8	40.8	48.3	38.9	+5	+6	1.2	1.3	41	37	2826	3032
OKSOY		- 4	7.9	38.6	43.2		+12	·	2.0		49		3190	
CUSTER	- +*	- 41	3.2	33,6	38.3	·=	*1 5		1.0		53	·	3137	
CALUMBUS				30.0		\$13.4	+13	+14	1.2	1.1	41	41	3001	3044
SHAWNEE		- 54	4.1	38.5	46.3		+13		1.0		46	 ,	3055	3044 ₁ ,
TEST AVERAGES	26.	8 57	2.3	42.3	47.3	40.4	1	- 1	2.0	1.5	46	39	2819	2974
LSD (.05)	4.	1 - 7	3.4	4.7			2.4	~	0.8		3.2	1	186.0	

1/ MEASURED AS DAYS EARLIER OF LATER THAN CLARK 63 (AVERAGE DATE 10/1) 2/ BASED ON A 1-TO-5 SCORE WITH 1* EXCENTINE, 5* POOP.

TABLE 4. SOYBEAN VARIETY PERFORMANCE IN FRANKLIN COUNTY.

			_	ELD U/A			URITY L/		OGING ORE 2/	н	EIGHT IN.		DS PEP
ENTRY	1971	1972	1973	1972-73	1971-73	1973	1971-73	1973	1971-73	1973	1971-73	1973	1971-73
AMSOY /1	64.0	48.3	31.7	40.0	48.0	-14	-14	1.0	1.2	39	39	3062	2876
SRF 200			30.1			-14		1.0		35		3333	****
SEEDMAKERS I-E Calland		41.8		36.4	43.0	-14	-11	1.7	1.5	42	42	2934	2859
CMEE MAIN	20.2	42.7	27.5	34.1	42.1	-9	-7	1.0	1.3	41	42	3257	3200
TEW 20-313-1		-	29_9			-9		1. 0					
WILLIAMS	55.5	47.6	28.4	38.0	43.8	-5	-3	1.0	1.2	40		3163	
BONUS	58.9	41.0	32.5	36.8	44.1	-4	- 2	1.0	1.7	40 45	42	3275	3234
TEW 20-326-1			23.5			-2		1.0		45	47 	3429 3742	3317
						_		••.,		7.7		3174	
BELLATTI L263		45.6		34.3	38.6	0	0	1.0	1.6	41	43	3636	3495
CLARK 63		42.6		32.8	37.4	ŋ	0	1.0	1.6	44	45	3717	3691
CUILER 71		93.0		34.9	40.1	+2	+ 1	1.0	1.5	4.7	44	3323	3257
FFR 951194			23.3			+5		1.0		40		3375	
MITCHELL			37 CF	/									
CUSTER		34.9	74 E	30.7		+15		1.0		43		373R	
DKSOY		30 3	20. 7	34.5		+17		1.0		48		3781	
SHAWNEE		47.4	32 1	39.7		+17 +19	**	1.0		46		3643	
		7147	J2. L	37.1		+14		1.0		42		3358	
COLUMBUS	41.9	51.1	31.0	41.0	41.3	+20	+18	1.0	1.5	43	46	3390	3427
TEST AVERAGES	52.0	43.2	28.3	35.8	41.2	o	ο	1.0	1.5	42.	42	342R	3309
LSD (.05)	5.4	6.0	3.9			3.4		0.2		3.1		283.3	

AZ MEASURED AS DAZS EARLIER OF LATER TOWN LLARR GREATERNO DATE SYLVE 27 HASED DR A. J. 10 S. SEGRE WITH LA LAURINE TO BE RELIEVE.

	I VARIETIES EVALUAT	DURING 1973-AVER
	UNO 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IN AREA II OF MISSOURI DURING 1973-AVER
7.5	TABLE 2.	
Pro-+161 19	11 (101 10/21	
OCO EDOM DAIPE	I ONE DEMINIST	
0000 1010000	1350ar 250	

			
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• •			
9	u.	1	
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MAL	7		
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165	191	ALS	
IET	9	12	
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*LODGING SCORES: 1=NO LODGING; 5=ALL PLANTS LODGED.

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ADDENDUM TO EXHIBIT E. RYS 1/10/18 ASSIGNMENT OF PLANT VARIETY PROTECTION

WHEREAS, AGRIPRO, INC., a corporation organized and existing under the laws of the State of Iowa, with principal offices in Ames, Iowa, is the owner of plant variety protection under the Plant Variety Protection Act represented by Certificate No. 7300054, dated October 30, 1974, with respect to "Mitchell" variety soybean, for which it made application for Plant Variety Protection Certificate on March 20, 1974; and

WHEREAS, RING AROUND PRODUCTS, INC., a corporation organized and existing under the laws of the State of Delaware, having its principal office in Montgomery, Alabama, is desirous of acquiring the interest of Agripro, Inc., in and to the Plant Variety Protection Certificate and application therefor as described above;

NOW, THEREFORE, for and in consideration of the sum of One (\$1.00) Dollar and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Agripro, Inc., by these presents, does hereby sell, assign, transfer and convey unto the said Ring Around Products, Inc., the full and exclusive right to the said Certificate of Plant Variety Protection and application therefor and to the "Mitchell" variety soybean as described therein, such protection evidenced by a Certificate of Plant Variety Protection No. 7300054, issued by the Plant Variety Protection Office on October 30, 1974; and Agripro, Inc. hereby requests the Secretary of Agriculture or his delegate, the Commissioner of Plant Variety Protection, to issue unto Ring Around Products, Inc., as the assignee, a Certificate of Plant Variety Protection with respect to the "Mitchell" variety soybean for the sole use of the said Ring Around Products, Inc., and its legal representatives.

And, for the same consideration, Agripro, Inc., by its duly authorized officers, agrees to assign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and generally to do everything to aid said Ring Around Products,

Inc., its successors, assigns, and nominees to obtain and enforce proper protection for said plant variety in all countries throughout the world.

IN WITNESS WHEREOF, the undersigned duly authorized officer of Agripro, Inc., has executed this Assignment on behalf of Agripro, Inc., this /s/ day of May, 1975.

AGRIPRO, INC. ATTEST: STATE OF IOWA COUNTY OF JOHN - (nunadycolg: , a Notary Public, (State of Iowa at Large,) (in and for said County in said State,) hereby certify that on this day before me personally appeared from the second seco Elijau and Gara M. Hoer , to me known and known to be the persons described in and who executed the foregoing Assignment of Plant Variety Protection as Inc. Peo's President and Man Plan's Secretary, and severally acknowledged before me that, being informed of the contents of the foregoing instrument, they executed the same voluntarily as such duly appointed officer, in the name of and for and on behalf of said corporation. IN WITNESS WHEREOF, I have hereunto set my hand and official seal, on this the 15 day of May, 1975.

JOE E. GRANDGEORGE NOTARY PUBLIC

PLANT VARIETY PROTECTION CERTIFICATE

WHEREAS, Ring Around Products, Inc., a Delaware corporation, having a place of business at 12200 Ford Road, Suite 400, Dallas, Texas 75234, hereinafter referred to as "Ring Around", is the duly authorized owner and holder of the entire right, title and interest in and to the following U.S. Plant Variety Protection Certificates and applications for U.S. Plant Variety Certificates (collectively referred to as "Certificates"):

Plant Protection Certificates and Applications

Variety	PVP Certificate No.	Date Issued
Mitchell	7300054	10/30/74
RA-526	7500067	12/12/75
RA-501A	7 6 TQ006	5/11/78
RA-401	7800030	6/22/78
RA-601	7800031	6/22/78
RA-480	7900007	2/15/79
RA-604	7900008	3/1/79
Mitchell 450	7900046	6/14/79
RA-402	8000093	7/31/80
RA-481	8000054	3/26/81
RA-680	8100097	4/15/82
RA-502	8200160	8/31/83
RA-403	8200163	10/27/83
Mitchell 410	8200162	10/27/83
	8200161	10/27/83
RA-606	_	
RA-580	8300075	4/30/84
RA-405	8500010 (filing number)	10/10/84 (filing date)
RA-451	8500008 (filing number)	10/10/84 (filing date)
RA-452	8500009 (filing number)	10/10/84 (filing date)

WHEREAS, ROHM AND HAAS SEEDS INC., a Delaware corporation, ("RHS") having a place of business at Independence Mall West, Philadelphia, Pennsylvania 19105, is desirous of acquiring the entire interest in the aforementioned varieties, Certificates and the rights associated therewith;

NOW, THEREFORE, in consideration of and in exchange for the sum of one dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, Ring Around does hereby sell, assign, transfer and set over, unto RHS its entire right, title and interest in and to the aforementioned varieties and Certificates.

WHEREAS, Rohm and Haas Seeds Inc., a Delaware corporation, with its principal office at Independence Mall West, Philadelphia, Pennsylvania 19105 ("RHS") is the owner of the entire right, title and interest in and to the following soybean varieties, applications for United States Plant Variety Protection Certificates and United States Plant Variety Protection Certificates (collectively referred to as "Certificates"):

Soybean Variety	Certificate Number	Date Issued
RA-401 RA-601 Mitchell 450	7300054 7800030 7800031 7900046 8000054	October 30, 1974 June 22, 1978 June 22, 1978 June 14, 1979 March 26, 1981
RA-402 Mitchell 410	8000093 8200162 8200163	July 31, 1980 October 27, 1983 October 27, 1983
RA-604 RA-680	7500067 7900008 8100097 8200160	December 12, 1975 March 1, 1979 April 15, 1982 August 31, 1983
RA-606 RA-580 RA-501 A	8200161 8300075 76TQ006	October 27, 1983 April 30, 1984 May 11, 1978
RA-480 Soybean Variety	7900007 Application Number	February 15, 1979 Filing Date
RA-451 RA-452 RA-405	8500008 8500009 8500010	October 10, 1984 October 10, 1984 October 10, 1984

WHEREAS, CR Seeds, a general partnership, having its principal office at 900 Darlington Highway, Hartsville, South Carolina 29550 ("Partnership") is desirous of acquiring the entire interest in the aforementioned varieties and Certificates;

WHEREAS, CR Seeds, a general partnership having it principal office at 900 Darlington Highway, Hartsville, South Carolina 29550 ("Partnership"), is the owner of the entire right, title and interest to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto;

WHEREAS, the partners of CR Seeds, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS") and Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), are each desirous of acquiring a one-half undivided interest in the varieies and Certificates listed on Appendix A;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, CR Seeds does hereby sell, assign and transfer to RHS a one-half undivided interest in and to the varieties and Certificates and to CPS a one-half undivided interest in and to the varieties and Certificates for each of their use and benefit and for each of their successors and assigns.

IN TESTIMONY THEREOF, CR Seeds intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

CR Seeds

By: C. President

State of South Carolina)SS

County of Darlington)

On this 30th day of <u>December</u>, 1986, before me appeared E. Joe Dahmer of CR Seeds, the person who signed this instrument who acknowledged that he signed it as a free act on behalf of CR Seeds with out to determine the signed it as a free act on behalf of CR

Seeds with authority to do so.

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My commission expires _

1-14-91

APPENDIX A

Soft Red Winter Wheat Varieties

Variety Name	U.S. Plant Variety Certificate No.	Issue Date
Coker 68-15	7200014	Mar. 6, 1974
Coker 68-19	7200015	Mar. 6, 1974
Coker 747	76TQ015	Sept. 9, 1978
Coker 762	8000152	Dec. 12, 1981
Coker 797	8000145	Dec. 12, 1981
Coker 916	8300036	Sept. 27, 1985
Coker 983	84000581	Feb. 27, 1984 ¹
McNair 701	7200038	Feb. 26, 1974
McNair 4823	7200037	April 8, 1975
RHS 8232	8400136 ¹	July 16, 1984 ¹
9227	86000091	Oct. 22, 1985 ¹
9323	8600010 ¹	Oct. 22, 1985 ¹

^{1.} Application number and filing date.

Winter Oat Varieties

Variety <u>Name</u>	U.S. Plant Variety Certificate No.	Issue Date
Coker 227	7500007	Oct. 20, 1977
Coker 716	7900003	Dec. 28, 1978
Coker 820	84000591	Feb. 28, 1984 ¹
Coker 234	7500008	Oct. 26, 1977
Four Twenty Two	7700085	Apr. 12, 1979
Big Mac	8200121	Aug. 19, 1982
Mesquite	8200122	Aug. 19, 1982

*

^{1.} Application number and filing date.

Soybean Varieties

Coker		
Hampton 266A	7100022	Sept. 6, 1973
Coker 136	7300091	Oct. 18, 1973
Coker 338	7400058	Oct. 29, 1976
Coker 237	7800034	July 13, 1978
Coker 488	7800035	July 13, 1978
Coker 156	7900043	Nov. 27, 1979
Coker 317	8100095	Nov. 19, 1981
Coker 368	8200140	Aug. 31, 1983
Coker 425	8400077	May 31, 1985
Coker 485	8400078	May 31, 1985
Coker 393 (Q327-4270)	8400018	Jan. 25, 1985
Coker 355 (XP5878)	8400019	Jan. 25, 1985
Coker 627	87000011	Oct. 3, 1986 ¹
Coker 686	Pending ¹	Dec. 19, 1986

^{1.} Application number and filing date.

Variety Name	U.S. Plant Variety Certificate No.	Issue Date
AP55	8100089	Feb. 18, 1982
AP70	7800081	Feb. 15, 1979
AP71	8100090	Sept. 24, 1981
Lancer	7600044	Sept. 29, 1976
RA-526	7500067	Dec. 12, 1975
RA-604	7900008	Mar. 1, 1975
RA-680	8100097	Apr. 15, 1982
RA-502	8200160	Aug. 31, 1983
RA-606	8200161	Oct. 27, 1983
RA-580	8300075	Apr. 30, 1984
Mitchell	7300054	Oct. 30, 1974
RA-401	7800030	June 22, 1978
RA-601	7800031	June 22, 1978
Mitchell 450	7900046	June 14, 1979
RA-481	8000054	Mar. 26, 1981
RA-402	8000093	July 31, 1981
Mitchell 410	8200162	Oct. 27, 1983
RA-403	8200163	Oct. 27, 1983

Name	Certificate No.	Issue Date
RA-451	85000081	Oct. 10, 1984 ¹
RA-452	8500009 ¹	Oct. 10, 1984 ¹
RA-405	8500010 ¹	Oct. 10, 1984 ¹
RA-501 A	76TQ006	May 11, 1978
RA-480	7900007	Feb. 15, 1979

^{1.} Application number and filing date.

WHEREAS, Rohm and Haas Seeds Inc., a Delaware corporation having its principal office at Independence Mall West, Philadelphia, PA 19105 ("RHS"), is the owner of a one-half undivided interest in and to the United States Plant Variety Protection Certificates and applications for such Certificates (collectively "Certificates") listed on Appendix A attached hereto:

WHEREAS, Coker's Pedigreed Seed Company, a South Carolina corporation with its principal office at 900 Darlington Highway, Hartsville, SC 29550 ("CPS"), is desirous of acquiring this onehalf undivided interest in the aforementioned varieties and Certificates;

NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, RHS does hereby sell, assign and transfer to CPS RHS's one-half undivided interest in and to the varieties and Certificates for CPS's use and benefit and for its successors and assigns.

IN TESTIMONY THEREOF, RHS intending to be legally bound has caused this assignment to be executed by its duly authorized officer.

ROHM AND HAAS SEEDS INC.

By: Have a. Musher Assistant Tressurer

State of Gennyham) SS County of Philadelphia)

On this 3/st day of Queenlee . 1986, before me appeared Howard A. Mergelkamp of Rohm and Haas Seeds Inc., the person who signed this instrument who acknowledged that he signed it as a free act on behalf of Rohm and Haas Seeds Inc. with authority to do so.

ELIZABETH Notary Public

My commission expires Sylvaniasion Expires Oct. 74, 1989

Notary Public, Phila., Phila. Co.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:

WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Coker's hereby sells, assigns, transfers and sets over to NK the Plant Variety Protection Certificates. Coker's further agrees, at no cost to it, to execute and deliver to NK, upon the request of NK, any further instrument of assignment that may be necessary to effectuate the transfer of each Plant Variety Protection Certificate.

IN WITNESS WHEREOF, Coker's has caused this instrument to be executed by its duly authorized representative as of the 20th day of July, 1988.

COKER'S PEDIGREED SEED COMPANY

By: E. Joe Dahmer President

STATE OF MINNESOTA)
) ss:
COUNTY OF HENNEPIN)

On this and day of July, 1988, before me, a Notary Public in and for the County aforesaid, the undersigned officer, E. Joe Dahmer, personally appeared and acknowledged himself to be the President of Coker's Pedigreed Seed Co., and that he executed the foregoing instrument for the purposes therein.

WITNESS my hand and seal this 20th day of July, 1988.

TIMOTHY M. BANGASSER

NOTARY PUBLIC — MINNESOTA

HENNEPIN COUNTY

My Commission Expires May 22, 1992

Motary Public

Soybean Varieties, Continued

Variety Name	! !	U.S. Plant Variety Certificate Number	Issue Date	Term (Yrs.)
AP55	•	8100089	Feb. 18, 1982	18
AP70		7800081	Feb. 15, 1979	17
AP71		8100090	Sept. 24, 1981	18
Lancer		7600044	Sept. 29, 1976	17
RA-526		7500067	Dec. 12, 1975	17
RA-604		7900008	Mar. 1, 1975	17
RA-680		8100097	Apr. 15, 1982	18
RA-502		8200160	Aug. 31, 1983	18
RA-606		8200161	Oct. 27, 1983	18
RA-580		8300075	Apr. 30, 1984	18
Mitchell		7300054	Oct. 30, 1974	17
Ra-401		7800030	June 22, 1978	17
RA-601		7800031	June 22, 1978	17
Mitchell	450	7900046	June 14, 1979	17
RA-481	1	8000054	Mar. 26, 1981	18
RA-402		8000093	July 31, 1980	17
Mitchell	410	8200162	Oct. 27, 1983	18
		8200163	Oct. 27, 1983	18
RA-451		8500008	Dec. 27, 1985	18
RA-452		8500009	Aug. 30, 1985	18
RA-405		8500010	Aug. 30, 1985	18
RA-501A		76T0006	May 11, 1978	17
RA-480	;	7 900007	Feb. 15, 1979	17

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WHEREAS, Rohm and Haas Seeds Inc., a Delaware corporation, with its principal office at Independence Mall West, Philadelphia, Pennsylvania 19105 ("RHS") is the owner of the entire right, title and interest in and to the following soybean varieties, applications for United States Plant Variety Protection Certificates and United States Plant Variety Protection Certificates (collectively referred to as "Certificates"):

Soybean Variety	Certificate Number	Date Issued
RA-401 RA-601	7300054 7800030 7800031 7900046	October 30, 1974 June 22, 1978 June 22, 1978 June 14, 1979
RA-481 RA-402	8000054 8000093 8200162	March 26, 1981 July 31, 1980 October 27, 1983
RA-403 RA-526	8200163 7500067 7900008	October 27, 1983 December 12, 1975 March 1, 1979
RA-680 RA-502	8100097 8200160 8200161	April 15, 1982 August 31, 1983 October 27, 1983
RA-580	8300075 76TQ006 7900007	April 30, 1984 May 11, 1978 February 15, 1979
Soybean Variety	Application Number	Filing Date
RA-451 RA-452 RA-405	8500008 8500009 8500010	October 10, 1984 October 10, 1984 October 10, 1984

WHEREAS, CR Seeds, a general partnership, having its principal office at 900 Darlington Highway, Hartsville, South Carolina 29550 ("Partnership") is desirous of acquiring the entire interest in the aforementioned varieties and Certificates;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, \mathtt{RHS} does hereby sell, assign, transfer to the Partnership the entire right, title and interest in and to the varieties and Certificates for its use and benefit and for its successors and assigns.

IN TESTIMONY THEREOF, Rohm and Haas Seeds Inc. intending to be legally bound has caused this assignment to be executed by its duly authorized officer, effective as of the 20th day of December, 1984.

ROHM A By:

Title:

STATE OF

COUNTY OF

SS

On this =23lecember day of , 1985, before me appeared Charles H. Baker of Rohm and Haas Seeds Inc., the person who signed this instrument, who acknowledged that he Charles signed it as a free act on behalf of Rohm and Haas Seeds $in\epsilon$ with authority to do so.

JOAN B. HENDERSON Notary

Notary Public, Phila., Phila. Co.

My Commission Expires Nov. 29, 1986